Manitoba
Agriculture
and Food
Farm Management

FARM MACHINERY

RENTAL AND

CUSTOM RATE GUIDE

2001

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INTRODUCTION

This Rental and Custom Rate Guide has been prepared by Manitoba Agriculture and Food to provide information on farm machinery costs, and rental and custom rates for users and owners of farm equipment. The costs and rates are based on average conditions existing in Manitoba in early 2001. The components of each of the rates are shown, so that they can be easily altered in case individual situations differ from those assumed.

These rates are provided as a guideline and should be interpreted and adjusted if necessary for individual situations.

The following conditions and assumptions were used in this guide:

NEW COST OF EQUIPMENT - based on the most recent published list prices less 15% for machines over $100,000; list price less 13.5% for other equipment. Freight costs are assumed to be 1% of new cost for tractors, 1.5% for combines and forage equipment, and 2% for tillage and seeding equipment.

Average sizes shown are based on the above prices. In many cases there is a wide variation in prices for a given size of machine. For example, air seeders may vary plus or minus 30% from the average, depending on the options selected. Where the actual cost of your machine is different for the size shown, the actual cost should be used to determine the appropriate rate.

ANNUAL HOURS OF USE - as shown on each chart.

INTEREST RATE - 5% per annum. This is the investment interest rate. It represents the opportunity cost of owning the equipment.

DEPRECIATION RATES - declining balance method; details given in appendix.

FIXED COSTS - total of interest and depreciation costs, plus 1% of new cost per annum for insurance and housing. Based on the average costs over the life of the machine.

REPAIRS AND MAINTENANCE - based on surveys by American Society of Agricultural Engineers and Manitoba Agriculture and Food and adjusted for Manitoba Farm Machinery Act warranties where applicable. Includes filters, oil changes, grease, and normal maintenance costs, including labor. Based on the average costs over the life of the machine.

MARGIN (MARKUP) - 15% of (total fixed costs plus repairs and maintenance).

RENTAL RATE - total of fixed costs, repairs and maintenance, and margin.

FUEL COST - based on average fuel consumption from Nebraska Tractor Tests (tractors) and PAMI tests (other self-propelled equipment), a diesel fuel price of $0.50/L, and a gasoline price of $0.54/L.

LABOUR COST- as shown on each chart.

CUSTOM RATE - total of rental rate, fuel cost and labour cost.

NOTE: All above costs are based on the averages over the life of the machine - assumed to be 15 years.The rental and custom rates shown are therefore low for machines less than 6 years old and high for machines older than 7 years.

NOTES and CALCULATIONS

TYPICAL COSTS PER ACRE

		SPEED	MACHINE SIZE or TYPE	RENTAL RATE	CUSTOM RATE
Balers	(round bales - 15 bales/h)		4 - 6 ft. dia.	$1.60 - 2.70/bale plus twine	$3.50 - 5.50/bale plus twine
	(square bales - 200 bales/h)		14 x 18 in.	$0.095 - 0.115/bale plus twine	$0.18 - 0.21/bale plus twine
	(large sq. bales - 30 bales/h)		32 x 34 in.	$2.50 - 3.75/bale plus twine	$4.00 - 6.00/bale plus twine
Bale pickup	(SP square bale wagon)		160 bales	$0.21 - 0.27/bale	$0.27 - 0.35/bale
	(PT round bale wagon)		12 bales	$0.85 - 1.30/bale	$2.60 - 3.70/bale
	(6 km round trip)				
Combine (SP)	(Wheat @ 45 bu/ac.)	3 - 5 mph	25 ft.	$13.50 - 18.00/ac	$15.50 - 21.00/ac
Cultivator	(first operation)	4 - 5 mph	40 ft.	$1.05 - 1.30/ac	$3.50 - 5.00/ac
	(secondary operations)	4.5 - 5.5 mph	40 ft.	$0.85 - 1.05/ac	$3.25 - 4.50/ac
Grain truck	(20 mile round trip)	35 - 50 mph	590 bus.(wheat)	$.0023-.0027/bu/mile	$.0041-.0045/bu/mile
	(60 mile round trip)		590 bus.(wheat)	$.0018-.0023/bu/mile	$.0032-.0037/bu/mile
Harrows		5.5 - 7 mph	80 ft.	$0.30 - 0.40/ac	$0.95 - 1.15/ac
Mower conditioner		4 - 5 mph	14 ft.	$5.00 - 5.75/ac	$8.50 - 9.75/ac
Seeders	(air seeder / air drill)	4 - 5 mph	40 ft.	$5.00 - 6.75/ac	$7.00 - 9.50/ac
	(drill)	4 - 5 mph	40 ft.	$3.50 - 4.50/ac	$5.50 - 8.00/ac
Sprayers	(Pull type)	5 - 8 mph	100 ft.	$1.05 - 1.55/ac	$2.00 - 2.50/ac
	(Self-Propelled)	12-15 mph	80 ft	$1.50 - $2.25/ac.	$1.75 - 2.50/ac.
Tractors		4 - 7 mph	2WD	$0.18 - 0.21/hphr.	add $0.07 - 0.09/hphr
			FWA	$0.20 - 0.24/hphr.	for fuel and $10/h
			4WD	$0.15 - 0.18/hphr.	for labour
Windrower (PTO)		4 - 5.5 mph	25 ft.	$1.95 - 2.35/ac	$4.00 - 5.00/ac
Windrower (SP)		4 - 5.5 mph	25 ft.	$6.00 - 7.50/ac	$7.50 - 9.00/ac

TRACTORS

New Cost	Average size PTO power	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
TWO WHEEL DRIVE TRACTORS									
$30,000	45kW(60 hp)*	300	9.02	1.20	1.53	11.75	4.34	10.00	26.09
		450	6.01	1.50	1.13	**8.64**	4.34	10.00	**22.98**
		600	4.51	1.80	0.95	7.26	4.34	10.00	21.60
$45,000	60 kW(80 hp)*	300	13.53	1.80	2.30	17.63	6.51	10.00	34.14
		450	9.02	2.25	1.69	**12.96**	6.51	10.00	**29.47**
		600	6.77	2.70	1.42	10.88	6.51	10.00	27.40
$60,000	75kW(100 hp)* 60 kW(80 hp)	300	18.04	2.40	3.07	23.51	6.87	10.00	40.38
		450	12.03	3.00	2.25	**17.28**	6.87	10.00	**34.15**
		600	9.02	3.60	1.89	14.51	6.87	10.00	31.39
$75,000	71kw(98 hp)	300	22.55	3.00	3.83	29.38	8.59	10.00	47.97
		450	15.03	3.75	2.82	**21.60**	8.59	10.00	**40.19**
		600	11.28	4.50	2.37	18.14	8.59	10.00	36.73
$90,000	89kW(120 hp)	300	27.06	3.60	4.60	35.26	10.31	10.00	55.57
		450	18.04	4.50	3.38	**25.92**	10.31	10.00	**46.23**
		600	13.53	5.40	2.84	21.77	10.31	10.00	42.08
$105,000	107kW(143 hp)	300	31.57	4.20	5.37	41.14	12.03	10.00	63.16
		450	21.05	5.25	3.94	**30.24**	12.03	10.00	**52.27**
		600	15.79	6.30	3.31	25.40	12.03	10.00	47.43
$120,000	125kW(168 hp)	300	36.08	4.80	6.13	47.01	13.75	10.00	70.76
		450	24.05	6.00	4.51	**34.56**	13.75	10.00	**58.31**
		600	18.04	7.20	3.79	29.03	13.75	10.00	52.77
$135,000	143kW(191 hp)	300	40.59	5.40	6.90	52.89	15.46	10.00	78.35
		450	27.06	6.75	5.07	**38.88**	15.46	10.00	**64.35**
		600	20.30	8.10	4.26	32.65	15.46	10.00	58.12
$150,000	160kW(215 hp)	300	45.10	6.00	7.67	58.77	17.18	10.00	85.95
		450	30.07	7.50	5.63	**43.20**	17.18	10.00	**70.38**
		600	22.55	9.00	4.73	36.28	17.18	10.00	63.46
FRONT WHEEL ASSIST TRACTORS									
$30,000	32 kW(45 hp)*	300	9.02	1.20	1.53	11.75	3.53	10.00	25.28
		450	6.01	1.50	1.13	**8.64**	3.53	10.00	**22.17**
		600	4.51	1.80	0.95	7.26	3.53	10.00	20.78
$45,000	48 kW(65 hp)*	300	13.53	1.80	2.30	17.63	5.29	10.00	32.92
		450	9.02	2.25	1.69	**12.96**	5.29	10.00	**28.25**
		600	6.77	2.70	1.42	10.88	5.29	10.00	26.18
$60,000	65 kW(87 hp)* 55 kW (74 hp)	300	18.04	2.40	3.07	23.51	7.06	10.00	40.56
		450	12.03	3.00	2.25	**17.28**	7.06	10.00	**34.34**
		600	9.02	3.60	1.89	14.51	7.06	10.00	31.57
$75,000	68 kW(92 hp)	300	22.55	3.00	3.83	29.38	7.50	10.00	46.88
		450	15.03	3.75	2.82	**21.60**	7.50	10.00	**39.10**
		600	11.28	4.50	2.37	18.14	7.50	10.00	35.64
$90,000	82 kW(110 hp)	300	27.06	3.60	4.60	35.26	9.00	10.00	54.26
		450	18.04	4.50	3.38	**25.92**	9.00	10.00	**44.92**
		600	13.53	5.40	2.84	21.77	9.00	10.00	40.77
$105,000	95 kW(128 hp)	300	31.57	4.20	5.37	41.14	10.50	10.00	61.64
		450	21.05	5.25	3.94	**30.24**	10.50	10.00	**50.74**
		600	15.79	6.30	3.31	25.40	10.50	10.00	45.90

Notes: If tractor rating is given in net engine power, multiply by 0.88 to get PTO power
Asterisks * indicate tractors without cabs but with ROPS.
If your tractor size and the new cost indicated don't agree, use the actual new cost.

TRACTORS

New Cost	Average size PTO power	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
FRONT WHEEL ASSIST TRACTORS (cont.)									
$120,000	108 kW(145 hp)	300	36.08	4.80	6.13	47.01	12.00	10.00	69.01
		450	24.05	6.00	4.51	**34.56**	12.00	10.00	**56.56**
		600	18.04	7.20	3.79	29.03	12.00	10.00	51.03
$135,000	123 kW(165 hp)	300	40.59	5.40	6.90	52.89	13.50	10.00	76.39
		450	27.06	6.75	5.07	**38.88**	13.50	10.00	**62.38**
		600	20.30	8.10	4.26	32.65	13.50	10.00	56.15
$150,000	135 kW(180 hp)	300	45.10	6.00	7.67	58.77	15.00	10.00	83.77
		450	30.07	7.50	5.63	**43.20**	15.00	10.00	**68.20**
		600	22.55	9.00	4.73	36.28	15.00	10.00	61.28
$165,000	150 kW(200 HP)	300	49.61	6.60	8.43	64.64	16.50	10.00	91.14
		450	33.07	8.25	6.20	**47.52**	16.50	10.00	**74.02**
		600	24.81	9.90	5.21	39.91	16.50	10.00	66.41
$180,000	160 kW(215 hp)	300	54.12	7.20	9.20	70.52	18.00	10.00	98.52
		450	36.08	9.00	6.76	**51.84**	18.00	10.00	**79.84**
		600	27.06	10.80	5.68	43.54	18.00	10.00	71.54
FOUR WHEEL DRIVE TRACTORS									
$120,000	149 kW (200 hp)	300	36.08	4.80	6.13	47.01	16.42	10.00	73.43
		450	24.05	6.00	4.51	**34.56**	16.42	10.00	**60.98**
		600	18.04	7.20	3.79	29.03	16.42	10.00	55.44
$130,000	162 kW (216 hp)	300	39.09	5.20	6.64	50.93	17.78	10.00	78.71
		450	26.06	6.50	4.88	**37.44**	17.78	10.00	**65.23**
		600	19.54	7.80	4.10	31.44	17.78	10.00	59.23
$140,000	174 kW (233 hp)	300	42.09	5.60	7.15	54.85	19.15	10.00	84.00
		450	28.06	7.00	5.26	**40.32**	19.15	10.00	**69.47**
		600	21.05	8.40	4.42	33.86	19.15	10.00	63.02
$150,000	187 kW (250 hp)	300	45.10	6.00	7.67	58.77	20.52	10.00	89.29
		450	30.07	7.50	5.63	**43.20**	20.52	10.00	**73.72**
		600	22.55	9.00	4.73	36.28	20.52	10.00	66.80
$160,000	199 kW (266 hp)	300	48.11	6.40	8.18	62.68	21.89	10.00	94.57
		450	32.07	8.00	6.01	**46.08**	21.89	10.00	**77.97**
		600	24.05	9.60	5.05	38.70	21.89	10.00	70.59
$170,000	211 kW (283 hp)	300	51.11	6.80	8.69	66.60	23.26	10.00	99.86
		450	34.08	8.50	6.39	**48.96**	23.26	10.00	**82.22**
		600	25.56	10.20	5.36	41.12	23.26	10.00	74.38
$185,000	230 kW (308 hp)	300	55.62	7.40	9.45	72.48	25.31	10.00	107.78
		450	37.08	9.25	6.95	**53.28**	25.31	10.00	**88.59**
		600	27.81	11.10	5.84	44.75	25.31	10.00	80.06
$200,000	248 kW (333 hp)	300	60.13	8.00	10.22	78.35	27.36	10.00	115.71
		450	40.09	10.00	7.51	**57.60**	27.36	10.00	**94.96**
		600	30.07	12.00	6.31	48.38	27.36	10.00	85.74
$215,000	268 kW(360 hp)	300	64.64	8.60	10.99	84.23	29.41	10.00	123.64
		450	43.10	10.75	8.08	**61.92**	29.41	10.00	**101.33**
		600	32.32	12.90	6.78	52.00	29.41	10.00	91.42
$230,000	286 kW (384 hp)	300	69.15	9.20	11.75	90.11	31.46	10.00	131.57
		450	46.10	11.50	8.64	**66.24**	31.46	10.00	**107.71**
		600	34.58	13.80	7.26	55.63	31.46	10.00	97.10

Notes: If tractor rating is given in net engine power, multiply by 0.88 to get PTO power
If your tractor size and the new cost indicated don't agree, use the actual new cost.
4WD = 4 wheel drive

SP COMBINES

New Cost	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
		dollars per hour						
$100,000	100	90.62	17.50	16.22	124.34	9.09	10.00	143.43
	175	51.78	21.00	10.92	**83.70**	9.09	10.00	**102.79**
	250	36.25	24.50	9.11	69.86	9.09	10.00	88.95
$115,000	100	104.21	20.12	18.65	142.99	10.45	10.00	163.44
	175	59.55	24.15	12.56	**96.26**	10.45	10.00	**116.71**
	250	41.69	28.18	10.48	80.34	10.45	10.00	100.80
$130,000	100	117.81	22.75	21.08	161.64	11.82	10.00	183.46
	175	67.32	27.30	14.19	**108.81**	11.82	10.00	**130.63**
	250	47.12	31.85	11.85	90.82	11.82	10.00	112.64
$145,000	100	131.40	25.37	23.52	180.29	13.18	10.00	203.47
	175	75.09	30.45	15.83	**121.37**	13.18	10.00	**144.55**
	250	52.56	35.53	13.21	101.30	13.18	10.00	124.48
$160,000	100	144.99	28.00	25.95	198.94	14.54	10.00	223.48
	175	82.85	33.60	17.47	**133.92**	14.54	10.00	**158.47**
	250	58.00	39.20	14.58	111.78	14.54	10.00	136.33
$175,000	100	158.59	30.62	28.38	217.59	15.91	10.00	243.50
	175	90.62	36.75	19.11	**146.48**	15.91	10.00	**172.39**
	250	63.43	42.88	15.95	122.26	15.91	10.00	148.17
$190,000	100	172.18	33.25	30.81	236.24	17.27	10.00	263.51
	175	98.39	39.90	20.74	**159.03**	17.27	10.00	**186.30**
	250	68.87	46.56	17.31	132.74	17.27	10.00	160.01
$205,000	100	185.77	35.87	33.25	254.89	18.63	10.00	283.53
	175	106.15	43.05	22.38	**171.59**	18.63	10.00	**200.22**
	250	74.31	50.23	18.68	143.22	18.63	10.00	171.86
$220,000	100	199.36	38.50	35.68	273.54	20.00	10.00	303.54
	175	113.92	46.20	24.02	**184.14**	20.00	10.00	**214.14**
	250	79.75	53.91	20.05	153.70	20.00	10.00	183.70
$235,000	100	212.96	41.12	38.11	292.19	21.36	10.00	323.56
	175	121.69	49.35	25.66	**196.70**	21.36	10.00	**228.06**
	250	85.18	57.58	21.41	164.18	21.36	10.00	195.54
$250,000	100	226.55	43.75	40.54	310.84	22.73	10.00	343.57
	175	129.46	52.50	27.29	**209.26**	22.73	10.00	**241.98**
	250	90.62	61.26	22.78	174.66	22.73	10.00	207.38
$265,000	100	240.14	46.37	42.98	329.50	24.09	10.00	363.58
	175	137.22	55.65	28.93	**221.81**	24.09	10.00	**255.90**
	250	96.06	64.93	24.15	185.14	24.09	10.00	219.23
$280,000	100	253.74	49.00	45.41	348.15	25.45	10.00	383.60
	175	144.99	58.80	30.57	**234.37**	25.45	10.00	**269.82**
	250	101.49	68.61	25.52	195.62	25.45	10.00	231.07

Cost in Last Year Manufactured

PTO Combines	
Case IH 1682	$76,500
Co-op Imp. 9600	$53,000
Co-op Imp. 9850	$84,000
John Deere 7721	$68,000
John Deere 9501	$79,000
Massey Ferguson 852	$54,500
SP Conventional	
Belarus 8400	$87,000
Don 1500	$78,000
JD 7720 Titan II	$122,500
JD 8820 Titan II	$136,000
JD 9500	$150,500
JD 9600	$163,750
JD 9510	$178,750
JD 9610	$200,750
JD CTS	$190,000
MF 855	$118,000
MF 865	$130,000
NH TX36	$157,000
SP Rotary	
Case-IH 1666	$142,500
Case-IH 1688	$161,000
Case-IH 2166	$163,000
Case-IH 2188	$186,500
Gleaner R50	$142,000
Gleaner R60	$167,000
Gleaner R70	$190,000
New Holland TR96	$153,500
New Holland TR97	$161,250
New Holland TR88	$170,000
New Holland TR98	$192,500

PTO COMBINES

New Cost	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
		dollars per hour			
$50,000	100	45.31	7.00	7.85	60.16
	175	25.89	8.40	5.14	**39.44**
	250	18.12	9.80	4.19	32.11
$55,000	100	49.84	7.70	8.63	66.17
	175	28.48	9.24	5.66	**43.38**
	250	19.94	10.78	4.61	35.33
$60,000	100	54.37	8.40	9.42	72.19
	175	31.07	10.08	6.17	**47.32**
	250	21.75	11.76	5.03	38.54
$65,000	100	58.90	9.10	10.20	78.20
	175	33.66	10.92	6.69	**51.27**
	250	23.56	12.74	5.45	41.75
$70,000	100	63.43	9.80	10.99	84.22
	175	36.25	11.76	7.20	**55.21**
	250	25.37	13.72	5.86	44.96
$75,000	100	67.97	10.50	11.77	90.23
	175	38.84	12.60	7.72	**59.15**
	250	27.19	14.70	6.28	48.17
$80,000	100	72.50	11.20	12.55	96.25
	175	41.43	13.44	8.23	**63.10**
	250	29.00	15.68	6.70	51.38
$85,000	100	77.03	11.90	13.34	102.27
	175	44.02	14.28	8.74	**67.04**
	250	30.81	16.66	7.12	54.59

New SP Combine Costs

Conventional Combines

Gleaner C62	$245,000
John Deere 9450	$181,500
John Deere 9550	$205,500
John Deere 9650	$232,750
John Deere CTS II	$245,000
MF 8450	$203,000
MF 8460	$238,000
MF 8680	$242,000
New Holland TX 66	$242,000
New Holland TX 68	$252,750

Rotary Combines

Case-IH 2344	$184,500
Case-IH 2366	$213,500
Case-IH 2388	$236,750
Gleaner R52	$210,000
Gleaner R62	$242,500
Gleaner R72	$245,000
JD 9650 STS	$243,500
JD 9750 STS	$26,300
MF 8570	$226,000
MF 8780	$236,500
New Holland TR 89	$200,000
New Holland TR 99	$224,500

Note: Above SP Combine prices include pickup header.
For straight cut headers, add to pickup 20' - $3,000
25' - $4,500
30' - $7,000
For corn heads, add to pickup price: 4 row - $14,000
6 row - $21,000
8 row - $30,000
For rear wheel drive assist, add $16,000 - $20,000.

AIR SEEDERS / AIR DRILLS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$60,000	Air seeder 9.0m(30 ft)	100	54.37	21.00	11.31	86.68
		125	43.50	21.00	9.67	**74.17**
		150	36.25	21.00	8.59	65.84
$67,500		100	61.17	23.63	12.72	97.51
		125	48.93	23.63	10.88	**83.44**
		150	40.78	23.63	9.66	74.06
$75,000	Air seeder 12.2 m (40 ft.)	100	67.97	26.25	14.13	108.35
		125	54.37	26.25	12.09	**92.72**
		150	45.31	26.25	10.73	82.29
$82,500	Air drill 9.0 m (30 ft.)	100	74.76	28.88	15.55	119.18
		125	59.81	28.88	13.30	**101.99**
		150	49.84	28.88	11.81	90.52
$90,000		100	81.56	31.50	16.96	130.02
		125	65.25	31.50	14.51	**111.26**
		150	54.37	31.50	12.88	98.75
$97,500	Air seeder 15.2 m (50 ft.)	100	88.35	34.13	18.37	140.85
		125	70.68	34.13	15.72	**120.53**
		150	58.90	34.13	13.95	106.98
$105,000	Air drill 12.0 m (40 ft.)	100	95.15	36.75	19.79	151.69
		125	76.12	36.75	16.93	**129.80**
		150	63.43	36.75	15.03	115.21
$112,500	Air seeder 18.3 m (60 ft.)	100	101.95	39.38	21.20	162.52
		125	81.56	39.38	18.14	**139.07**
		150	67.97	39.38	16.10	123.44
$120,000		100	108.74	42.00	22.61	173.36
		125	87.00	42.00	19.35	**148.34**
		150	72.50	42.00	17.17	131.67
$127,500		100	115.54	44.63	24.02	184.19
		125	92.43	44.63	20.56	**157.62**
		150	77.03	44.63	18.25	139.90
$135,000	Air drill 15.2 m (50 ft.)	100	122.34	47.25	25.44	195.03
		125	97.87	47.25	21.77	**166.89**
		150	81.56	47.25	19.32	148.13
$142,500		100	129.13	49.88	26.85	205.86
		125	103.31	49.88	22.98	**176.16**
		150	86.09	49.88	20.39	156.36
$150,000	Air drill 18.3m (60 ft.)	100	135.93	52.50	28.26	216.69
		125	108.74	52.50	24.19	**185.43**
		150	90.62	52.50	21.47	164.59

Note:There is a wide variation in air seeder and air drill prices, so your machine size may not agree with the new cost indicated. In this case, **use the actual new cost**.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SEED DRILLS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$30,000	Press drill 3.7 m (12 ft.)	100	27.19	12.00	5.88	45.06
		125	21.75	12.00	5.06	**38.81**
		150	18.12	12.00	4.52	34.64
$35,000		100	31.72	14.00	6.86	52.57
		125	25.37	14.00	5.91	**45.28**
		150	21.14	14.00	5.27	40.42
$40,000	Press drill 6.1 m (20 ft.) No till drill 3.6 m (12 ft.)	100	36.25	16.00	7.84	60.09
		125	29.00	16.00	6.75	**51.75**
		150	24.17	16.00	6.02	46.19
$45,000		100	40.78	18.00	8.82	67.60
		125	32.62	18.00	7.59	**58.22**
		150	27.19	18.00	6.78	51.96
$50,000	Press drill 8.5 m (28 ft.) No till drill 5.0 m (16 ft.)	100	45.31	20.00	9.80	75.11
		125	36.25	20.00	8.44	**64.69**
		150	30.21	20.00	7.53	57.74
$55,000		100	49.84	22.00	10.78	82.62
		125	39.87	22.00	9.28	**71.15**
		150	33.23	22.00	8.28	63.51
$60,000	Press drill 10.9 m (36 ft.) No till drill 6.4 m (21 ft.)	100	54.37	24.00	11.76	90.13
		125	43.50	24.00	10.12	**77.62**
		150	36.25	24.00	9.04	69.29
$65,000	Press drill 12.1 m (40 ft.) No till drill 7.3 m (24 ft.)	100	58.90	26.00	12.74	97.64
		125	47.12	26.00	10.97	**84.09**
		150	39.27	26.00	9.79	75.06
$70,000		100	63.43	28.00	13.72	105.15
		125	50.75	28.00	11.81	**90.56**
		150	42.29	28.00	10.54	80.83
$75,000	Press drill 14.6 m (48 ft.) No till drill 8.5 m (28 ft.)	100	67.97	30.00	14.69	112.66
		125	54.37	30.00	12.66	**97.03**
		150	45.31	30.00	11.30	86.61

NOTE: There is a wide variation in seed drill prices so your drill size may not agree with the new cost indicated. In this case, use the **actual new cost**. Press drill refers to a drill with either double disc or hoe type openers.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

GRAIN DRYERS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Power* Cost	Labour Cost	Custom Rate	Propane Cost** (see bottom of table)
			dollars per hour							
$20,000		100	18.12	3.00	3.17	24.29	0.90	10.00	35.19	
		150	12.08	3.00	2.26	**17.35**	0.90	10.00	**28.25**	
		200	9.06	3.00	1.81	13.87	0.90	10.00	24.77	
$25,000	250 bu. Recir.batch	100	22.66	3.75	3.96	30.37	1.13	10.00	41.49	
		150	15.10	3.75	2.83	**21.68**	1.13	10.00	**32.81**	
		200	11.33	3.75	2.26	17.34	1.13	10.00	28.46	
$30,000	Stationary Batch (180 bu.)	100	27.19	4.50	4.75	36.44	1.35	10.00	47.79	
		150	18.12	4.50	3.39	**26.02**	1.35	10.00	**37.37**	
		200	13.59	4.50	2.71	20.81	1.35	10.00	32.16	
$35,000	350 bu. Recir. Batch	100	31.72	5.25	5.55	42.51	1.58	10.00	54.09	
		150	21.14	5.25	3.96	**30.35**	1.58	10.00	**41.93**	
		200	15.86	5.25	3.17	24.27	1.58	10.00	35.85	
$40,000	450 bu. Recir. Batch Small Cont. Flow	100	36.25	6.00	6.34	48.59	1.80	10.00	60.39	
		150	24.17	6.00	4.52	**34.69**	1.80	10.00	**48.49**	
		200	18.12	6.00	3.62	27.74	1.80	10.00	39.54	
$45,000	Stationary Batch (250 bu.)	100	40.78	6.75	7.13	54.66	2.03	10.00	66.68	
		150	27.19	6.75	5.09	**39.03**	2.03	10.00	**51.05**	
		200	20.39	6.75	4.07	31.21	2.03	10.00	43.24	
$50,000		100	45.31	7.50	7.92	60.73	2.25	10.00	72.98	
		150	30.21	7.50	5.66	**43.36**	2.25	10.00	**55.61**	
		200	22.66	7.50	4.52	34.68	2.25	10.00	46.93	
$55,000	Med. Cont. Flow	100	49.84	8.25	8.71	66.80	2.48	10.00	79.28	
		150	33.23	8.25	6.22	**47.70**	2.48	10.00	**60.17**	
		200	24.92	8.25	4.98	38.15	2.48	10.00	50.62	
$60,000		100	54.37	9.00	9.51	72.88	2.70	10.00	85.58	
		150	36.25	9.00	6.79	**52.04**	2.70	10.00	**64.74**	
		200	27.19	9.00	5.43	41.61	2.70	10.00	54.31	
$65,000	Stationary Batch (400 bu.)	100	58.90	9.75	10.30	78.95	2.93	10.00	91.88	
		150	39.27	9.75	7.35	**56.37**	2.93	10.00	**69.30**	
		200	29.45	9.75	5.88	45.08	2.93	10.00	58.01	
$70,000	Large Cont. Flow	100	63.43	10.50	11.09	85.02	3.15	10.00	98.17	
		150	42.29	10.50	7.92	**60.71**	3.15	10.00	**73.86**	
		200	31.72	10.50	6.33	48.55	3.15	10.00	61.70	
$75,000		100	67.97	11.25	11.88	91.10	3.38	10.00	104.47	
		150	45.31	11.25	8.48	**65.04**	3.38	10.00	**78.42**	
		200	33.98	11.25	6.78	52.02	3.38	10.00	65.39	

New Cost should include dryer and associated grain handling equipment. Wet/dry surge and cooling bins should not be included.

*Power costs include hydro costs for dryer operation. If tractor driven, use tractor cost (plus fuel) and hydro costs for load/unload augers.

Propane Costs:

Propane costs will vary greatly depending upon ambient air temperature, drying temperature, grain type, moisture removed, dryer type,etc. **Actual propane consumption should be used in determining costs. For approximate costs, use chart below with appropriate ambient temperature correction factor. Costs assume propane at $0.30 per litre and a drying air temperature of 65 degrees C.

	2.5% moisture removal	5.5% moisture removal
Wheat/Barley	$0.05 per bu.(w.b.)*	$0.09 per bu.(w.b.)*
Oilseeds	$0.04 per bu.(w.b.)*	$0.07 per bu.(w.b.)*

*wet bushels

Note: Costs shown assume an ambient air temperatures of 15 degrees C.
For lower ambient air temperatures, multiply propane cost by the following factors:

15 degrees C = 1.0
-7 degrees C = 1.5
-30 degrees C = 2.0

Sample calculation shown in Appendix, page 33.

ROW CROP PLANTERS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$30,000		75	36.25	12.00	7.24	55.49
		100	27.19	12.00	5.88	**45.06**
		125	21.75	12.00	5.06	38.81
$37,500		75	45.31	15.00	9.05	69.36
		100	33.98	15.00	7.35	**56.33**
		125	27.19	15.00	6.33	48.51
$45,000		75	54.37	18.00	10.86	83.23
		100	40.78	18.00	8.82	**67.60**
		125	32.62	18.00	7.59	58.22
$52,500		75	63.43	21.00	12.67	97.10
		100	47.58	21.00	10.29	**78.86**
		125	38.06	21.00	8.86	67.92
$60,000	6 row planter	75	72.50	24.00	14.47	110.97
		100	54.37	24.00	11.76	**90.13**
		125	43.50	24.00	10.12	77.62
$67,500		75	81.56	27.00	16.28	124.84
		100	61.17	27.00	13.23	**101.39**
		125	48.93	27.00	11.39	87.33
$75,000	8 row planter	75	90.62	30.00	18.09	138.71
		100	67.97	30.00	14.69	**112.66**
		125	54.37	30.00	12.66	97.03

NOTE: There is a wide variation in planter prices, so your planter size may not agree with the new cost indicated. In this case, use the **actual new cost**.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SPRAYERS (PT)

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$20,000	12.6 m (41.2 ft.)	40	45.31	10.00	8.30	63.61
		60	30.21	10.00	6.03	**46.24**
		80	22.66	10.00	4.90	37.55
$22,500	15.7 m (51.5 ft.)	40	50.97	11.25	9.33	71.56
		60	33.98	11.25	6.78	**52.02**
		80	25.49	11.25	5.51	42.25
$25,000	18.9 m (61.8 ft.)	40	56.64	12.50	10.37	79.51
		60	37.76	12.50	7.54	**57.80**
		80	28.32	12.50	6.12	46.94
$27,500	22.0 m (72.1 ft.)	40	62.30	13.75	11.41	87.46
		60	41.53	13.75	8.29	**63.58**
		80	31.15	13.75	6.74	51.64
$30,000	25.1 m (82.3 ft.)	40	67.97	15.00	12.44	95.41
		60	45.31	15.00	9.05	**69.36**
		80	33.98	15.00	7.35	56.33
$32,500	28.2 m (92.6 ft.)	40	73.63	16.25	13.48	103.36
		60	49.09	16.25	9.80	**75.14**
		80	36.81	16.25	7.96	61.02
$35,000	31.4 m (102.9 ft.)	40	79.29	17.50	14.52	111.31
		60	52.86	17.50	10.55	**80.92**
		80	39.65	17.50	8.57	65.72
$37,500	34.5 m (113.2 ft.)	40	84.96	18.75	15.56	119.26
		60	56.64	18.75	11.31	**86.70**
		80	42.48	18.75	9.18	70.41
$40,000	37.6 m (123.4 ft.)	40	90.62	20.00	16.59	127.21
		60	60.41	20.00	12.06	**92.48**
		80	45.31	20.00	9.80	75.11

NOTE: There is a wide variation in sprayer prices, so your sprayer size may not agree with the new cost indicated. In this case, use the **actual new cost**.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SPRAYERS (SP)

New Cost	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
		dollars per hour						
$80,000	150	48.33	24.00	10.85	83.18	6.40	10.00	99.58
	200	36.25	24.00	9.04	**69.29**	6.40	10.00	**85.69**
	250	29.00	24.00	7.95	60.95	6.40	10.00	77.35
$90,000	150	54.37	27.00	12.21	93.58	7.20	10.00	110.78
	200	40.78	27.00	10.17	**77.95**	7.20	10.00	**95.15**
	250	32.62	27.00	8.94	68.57	7.20	10.00	85.77
$100,000	150	60.41	30.00	13.56	103.98	8.00	10.00	121.98
	200	45.31	30.00	11.30	**86.61**	8.00	10.00	**104.61**
	250	36.25	30.00	9.94	76.19	8.00	10.00	94.19
$110,000	150	66.45	33.00	14.92	114.37	8.80	10.00	133.17
	200	49.84	33.00	12.43	**95.27**	8.80	10.00	**114.07**
	250	39.87	33.00	10.93	83.80	8.80	10.00	102.60
$120,000	150	72.50	36.00	16.27	124.77	9.60	10.00	144.37
	200	54.37	36.00	13.56	**103.93**	9.60	10.00	**123.53**
	250	43.50	36.00	11.92	91.42	9.60	10.00	111.02
$130,000	150	78.54	39.00	17.63	135.17	10.40	10.00	155.57
	200	58.90	39.00	14.69	**112.59**	10.40	10.00	**132.99**
	250	47.12	39.00	12.92	99.04	10.40	10.00	119.44
$140,000	150	84.58	42.00	18.99	145.57	11.20	10.00	166.77
	200	63.43	42.00	15.82	**121.25**	11.20	10.00	**142.45**
	250	50.75	42.00	13.91	106.66	11.20	10.00	127.86
$150,000	150	90.62	45.00	20.34	155.96	12.00	10.00	177.96
	200	67.97	45.00	16.94	**129.91**	12.00	10.00	**151.91**
	250	54.37	45.00	14.91	114.28	12.00	10.00	136.28
$160,000	150	96.66	48.00	21.70	166.36	12.80	10.00	189.16
	200	72.50	48.00	18.07	**138.57**	12.80	10.00	**161.37**
	250	58.00	48.00	15.90	121.90	12.80	10.00	144.70
$170,000	150	102.70	51.00	23.06	176.76	13.60	10.00	200.36
	200	77.03	51.00	19.20	**147.23**	13.60	10.00	**170.83**
	250	61.62	51.00	16.89	129.51	13.60	10.00	153.11
$180,000	150	108.74	54.00	24.41	187.16	14.40	10.00	211.56
	200	81.56	54.00	20.33	**155.89**	14.40	10.00	**180.29**
	250	65.25	54.00	17.89	137.13	14.40	10.00	161.53
$190,000	150	114.79	57.00	25.77	197.55	15.20	10.00	222.75
	200	86.09	57.00	21.46	**164.55**	15.20	10.00	**189.75**
	250	68.87	57.00	18.88	144.75	15.20	10.00	169.95
$200,000	150	120.83	60.00	27.12	207.95	16.00	10.00	233.95
	200	90.62	60.00	22.59	**173.21**	16.00	10.00	**199.21**
	250	72.50	60.00	19.87	152.37	16.00	10.00	178.37

CULTIVATORS

New Cost	Average size		Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour			
$15,000			150	9.06	4.50	2.03	15.60
			200	6.80	4.50	1.69	**12.99**
			250	5.44	4.50	1.49	11.43
$20,000	Fixed Hitch	8.7 m (28 ft.)	150	12.08	6.00	2.71	20.80
	Heavy Duty	7.6 m (25 ft.)	200	9.06	6.00	2.26	**17.32**
			250	7.25	6.00	1.99	15.24
$25,000	Fixed Hitch	10.8 m (35 ft.)	150	15.10	7.50	3.39	25.99
	Heavy Duty	9.5 m(31 ft.)	200	11.33	7.50	2.82	**21.65**
			250	9.06	7.50	2.48	19.05
$30,000	Fixed Hitch	13.0 m (43 ft.)	150	18.12	9.00	4.07	31.19
	Heavy Duty	11.4 m (37 ft.)	200	13.59	9.00	3.39	**25.98**
	Floating Hitch	7.6 m(25 ft.)	250	10.87	9.00	2.98	22.86
$35,000	Fixed Hitch	15.2 m (50 ft.)	150	21.14	10.50	4.75	36.39
	Heavy Duty	13 m (43 ft.)	200	15.86	10.50	3.95	**30.31**
	Floating Hitch	9.1 m(30 ft.)	250	12.69	10.50	3.48	26.66
$40,000	Fixed Hitch	17.4 m (57 ft.)	150	24.17	12.00	5.42	41.59
	Heavy Duty	15.2 m (50 ft.)	200	18.12	12.00	4.52	**34.64**
	Floating Hitch	10.7 m(35 ft.)	250	14.50	12.00	3.97	30.47
$45,000	Fixed Hitch	19.5 m (64 ft.)	150	27.19	13.50	6.10	46.79
	Heavy Duty	17.4 m (57 ft.)	200	20.39	13.50	5.08	38.97
	Floating Hitch	12.2 m(40 ft.)	250	16.31	13.50	4.47	34.28
$50,000	Floating Hitch	13.7 m (45ft.)	150	30.21	15.00	6.78	51.99
			200	22.66	15.00	5.65	**43.30**
			250	18.12	15.00	4.97	38.09
$55,000	Floating Hitch	15.2 m (50 ft.)	150	33.23	16.50	7.46	57.19
			200	24.92	16.50	6.21	**47.63**
			250	19.94	16.50	5.47	41.90
$60,000	Floating Hitch	16.8 m(55 ft.)	150	36.25	18.00	8.14	62.39
			200	27.19	18.00	6.78	**51.96**
			250	21.75	18.00	5.96	45.71
$65,000	Floating Hitch	18.3 m (60 ft.)	150	39.27	19.50	8.82	67.58
			200	29.45	19.50	7.34	**56.29**
			250	23.56	19.50	6.46	49.52

Note: There is a wide variation in cultivator prices, so your cultivator size may not agree with the new cost indicated. In this case, use the **actual new cost.**
*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

HARROWS and PACKERS

New Cost	Average size		Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour			
$5,000	Harrows	9.3 m (30.7 ft.)	100	4.53	1.50	0.90	6.94
			125	3.62	1.50	0.77	**5.89**
			150	3.02	1.50	0.68	5.20
$8,000	Harrows	14.0 m (46 ft.)	100	7.25	2.40	1.45	11.10
	Packers	6.5 m (21 ft.)	125	5.80	2.40	1.23	**9.43**
			150	4.83	2.40	1.08	8.32
$11,000	Harrows	18.7 m (61 ft.)	100	9.97	3.30	1.99	15.26
	Packers	8.7 m (29 ft.)	125	7.97	3.30	1.69	**12.97**
	Har. Packer	7.6 m (25 ft.)	150	6.65	3.30	1.49	11.44
$14,000	Harrows	23.4 m (77 ft.)	100	12.69	4.20	2.53	19.42
	Packers	10.9 m (36 ft.)	125	10.15	4.20	2.15	**16.50**
	Har. Packer	9.5 m (31 ft.)	150	8.46	4.20	1.90	14.56
$17,000	Harrows	28.0 m (92 ft.)	100	15.41	5.10	3.08	23.58
	Packers	13 m (43 ft.)	125	12.32	5.10	2.61	**20.04**
	Har. Packer	11.5 m (38 ft.)	150	10.27	5.10	2.31	17.68
$20,000	Harrows	32.7 m (107 ft.)	100	18.12	6.00	3.62	27.74
	Packers	15.2 m (50 ft.)	125	14.50	6.00	3.07	**23.57**
	Har. Packer	13.4 m (44 ft.)	150	12.08	6.00	2.71	20.80
$23,000	Harrows	37.4 m (123 ft.)	100	20.84	6.90	4.16	31.90
	Packers	17.4 m (57 ft.)	125	16.67	6.90	3.54	**27.11**
	Har. Packer	15.2 m (50 ft.)	150	13.90	6.90	3.12	23.91
$26,000	Packers	19.6 m (64 ft.)	100	23.56	7.80	4.70	36.07
	Har. Packer	17.1 m (56 ft.)	125	18.85	7.80	4.00	**30.65**
	Heavy Har.	21.3 m (70 ft.)	150	15.71	7.80	3.53	27.03
$29,000	Har. Packer	19 m (62 ft.)	100	26.28	8.70	5.25	40.23
	Heavy Har.	25 m (82 ft.)	125	21.02	8.70	4.46	**34.18**
			150	17.52	8.70	3.93	30.15
$32,000	Har. Packer	21 m (69 ft.)	100	29.00	9.60	5.79	44.39
			125	23.20	9.60	4.92	**37.72**
			150	19.33	9.60	4.34	33.27
$35,000			100	31.72	10.50	6.33	48.55
			125	25.37	10.50	5.38	**41.25**
			150	21.14	10.50	4.75	36.39

NOTE: There is a wide variation in harrow and packer prices, so your harrow or packer size may not agree with the new cost indicated. In this case, use the **actual** new cost.
*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

TANDEM DISCS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$10,000	4.0 m (13.2 ft.)	100	9.06	2.50	1.73	13.30
		125	7.25	2.50	1.46	11.21
		150	6.04	2.50	1.28	9.82
$14,000	5.4 m (17.6 ft.)	100	12.69	3.50	2.43	18.61
		125	10.15	3.50	2.05	15.70
		150	8.46	3.50	1.79	13.75
$18,000		100	16.31	4.50	3.12	23.93
		125	13.05	4.50	2.63	20.18
		150	10.87	4.50	2.31	17.68
$22,000		100	19.94	5.50	3.82	29.25
		125	15.95	5.50	3.22	24.67
		150	13.29	5.50	2.82	21.61
$26,000	6.5 m (21.3 ft.)	100	23.56	6.50	4.51	34.57
		125	18.85	6.50	3.80	29.15
		150	15.71	6.50	3.33	25.54
$30,000	7.4 m (24.3 ft.)	100	27.19	7.50	5.20	39.89
		125	21.75	7.50	4.39	33.64
		150	18.12	7.50	3.84	29.47
$34,000	8.3 m (27.3 ft.)	100	30.81	8.50	5.90	45.21
		125	24.65	8.50	4.97	38.12
		150	20.54	8.50	4.36	33.40
$38,000	9.3 m (30.4 ft.)	100	34.44	9.50	6.59	50.53
		125	27.55	9.50	5.56	42.61
		150	22.96	9.50	4.87	37.33
$42,000	10.2 m (33.4 ft.)	100	38.06	10.50	7.28	55.84
		125	30.45	10.50	6.14	47.09
		150	25.37	10.50	5.38	41.25
$46,000	11.1 m (36.4 ft.)	100	41.69	11.50	7.98	61.16
		125	33.35	11.50	6.73	51.58
		150	27.79	11.50	5.89	45.18
$50,000	12.1 m (39.5 ft.)	100	45.31	12.50	8.67	66.48
		125	36.25	12.50	7.31	56.06
		150	30.21	12.50	6.41	49.11

Note: There is a wide variation in tandem disc prices, so your disc size may not agree with the new cost indicated. In this case, use the **actual new cost**.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

PLOWS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$10,000	1.8 m (6.0 ft.)	100	9.06	3.00	1.81	13.87
		125	7.25	3.00	1.54	**11.79**
		150	6.04	3.00	1.36	10.40
$12,500	2.2 m (7.4 ft.)	100	11.33	3.75	2.26	17.34
		125	9.06	3.75	1.92	**14.73**
		150	7.55	3.75	1.70	13.00
$15,000	2.7 m (8.9 ft.)	100	13.59	4.50	2.71	20.81
		125	10.87	4.50	2.31	**17.68**
		150	9.06	4.50	2.03	15.60
$17,500	3.1 m (10.3 ft.)	100	15.86	5.25	3.17	24.27
		125	12.69	5.25	2.69	**20.63**
		150	10.57	5.25	2.37	18.20
$20,000	3.5 m (11.8 ft.)	100	18.12	6.00	3.62	27.74
		125	14.50	6.00	3.07	**23.57**
		150	12.08	6.00	2.71	20.80
$22,500	4.0 m (13.2 ft.)	100	20.39	6.75	4.07	31.21
		125	16.31	6.75	3.46	**26.52**
		150	13.59	6.75	3.05	23.39
$25,000	4.5 m (14.7 ft.)	100	22.66	7.50	4.52	34.68
		125	18.12	7.50	3.84	**29.47**
		150	15.10	7.50	3.39	25.99
$27,500	4.9 m (16.1 ft.)	100	24.92	8.25	4.98	38.15
		125	19.94	8.25	4.23	**32.41**
		150	16.61	8.25	3.73	28.59
$30,000	5.4 m (17.6 ft.)	100	27.19	9.00	5.43	41.61
		125	21.75	9.00	4.61	**35.36**
		150	18.12	9.00	4.07	31.19

ROCKPICKERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$8,000	fork type - small windrower - 3.0 m (10 ft.)	75	9.67	3.20	1.93	14.80
		100	7.25	3.20	1.57	**12.02**
		125	5.80	3.20	1.35	10.35
$10,500	fork type -medium reel type - small windrower - 4.3 m (14 ft.)	75	12.69	4.20	2.53	19.42
		100	9.52	4.20	2.06	**15.77**
		125	7.61	4.20	1.77	13.58
$13,000	fork type - large reel type - medium windrower - 6.1 m (20 ft.)	75	15.71	5.20	3.14	24.04
		100	11.78	5.20	2.55	**19.53**
		125	9.42	5.20	2.19	16.82
$15,500	reel type - large	75	18.73	6.20	3.74	28.67
		100	14.05	6.20	3.04	**23.28**
		125	11.24	6.20	2.62	20.05

NOTE: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SP WINDROWERS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
$60,000		100	54.37	18.00	10.86	83.23	5.79	10.00	99.01
		125	43.50	18.00	9.22	**70.72**	5.79	10.00	**86.51**
		150	36.25	18.00	8.14	62.39	5.79	10.00	78.17
$63,000		100	57.09	18.90	11.40	87.39	6.08	10.00	103.47
		125	45.67	18.90	9.69	**74.26**	6.08	10.00	**90.33**
		150	38.06	18.90	8.54	65.50	6.08	10.00	81.58
$66,000		100	59.81	19.80	11.94	91.55	6.37	10.00	107.92
		125	47.85	19.80	10.15	**77.79**	6.37	10.00	**94.16**
		150	39.87	19.80	8.95	68.62	6.37	10.00	84.99
$69,000	6.4 m (21 ft.) diesel engine	100	62.53	20.70	12.48	95.71	6.66	10.00	112.37
		125	50.02	20.70	10.61	**81.33**	6.66	10.00	**97.99**
		150	41.69	20.70	9.36	71.74	6.66	10.00	88.40
$71,000	7.6 m (25 ft.) diesel engine	100	64.34	21.30	12.85	98.49	6.85	10.00	115.33
		125	51.47	21.30	10.92	**83.69**	6.85	10.00	**100.54**
		150	42.89	21.30	9.63	73.82	6.85	10.00	90.67
$73,000	9.1 m (30 ft.) diesel engine	100	66.15	21.90	13.21	101.26	7.04	10.00	118.30
		125	52.92	21.90	11.22	**86.05**	7.04	10.00	**103.09**
		150	44.10	21.90	9.90	75.90	7.04	10.00	92.94
$75,000		100	67.97	22.50	13.57	104.03	7.23	10.00	121.27
		125	54.37	22.50	11.53	**88.40**	7.23	10.00	**105.64**
		150	45.31	22.50	10.17	77.98	7.23	10.00	95.22
$77,000		100	69.78	23.10	13.93	106.81	7.43	10.00	124.24
		125	55.82	23.10	11.84	**90.76**	7.43	10.00	**108.19**
		150	46.52	23.10	10.44	80.06	7.43	10.00	97.49
$79,000	7.6 m (25 ft.) turbo diesel	100	71.59	23.70	14.29	109.58	7.62	10.00	127.20
		125	57.27	23.70	12.15	**93.12**	7.62	10.00	**110.74**
		150	47.73	23.70	10.71	82.14	7.62	10.00	99.76
$81,000	9.1 m (30 ft.) turbo diesel	100	73.40	24.30	14.66	112.36	7.81	10.00	130.17
		125	58.72	24.30	12.45	**95.48**	7.81	10.00	**113.29**
		150	48.93	24.30	10.99	84.22	7.81	10.00	102.03
$83,000	11 m (36 ft.) turbo diesel	100	75.21	24.90	15.02	115.13	8.01	10.00	133.14
		125	60.17	24.90	12.76	**97.83**	8.01	10.00	**115.84**
		150	50.14	24.90	11.26	86.30	8.01	10.00	104.30
$85,000		100	77.03	25.50	15.38	117.91	8.20	10.00	136.10
		125	61.62	25.50	13.07	**100.19**	8.20	10.00	**118.39**
		150	51.35	25.50	11.53	88.38	8.20	10.00	106.58

PTO WINDROWERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$13,000		100	11.78	4.55	2.45	18.78
		125	9.42	4.55	2.10	**16.07**
		150	7.85	4.55	1.86	14.26
$15,000		100	13.59	5.25	2.83	21.67
		125	10.87	5.25	2.42	**18.54**
		150	9.06	5.25	2.15	16.46
$17,000		100	15.41	5.95	3.20	24.56
		125	12.32	5.95	2.74	**21.02**
		150	10.27	5.95	2.43	18.65
$19,000	6.4 m (21 ft.)	100	17.22	6.65	3.58	27.45
		125	13.77	6.65	3.06	**23.49**
		150	11.48	6.65	2.72	20.85
$21,000	7.6 m (25 ft.)	100	19.03	7.35	3.96	30.34
		125	15.22	7.35	3.39	**25.96**
		150	12.69	7.35	3.01	23.04
$23,000		100	20.84	8.05	4.33	33.23
		125	16.67	8.05	3.71	**28.43**
		150	13.90	8.05	3.29	25.24
$25,000	9.1 m (30 ft.)	100	22.66	8.75	4.71	36.12
		125	18.12	8.75	4.03	**30.91**
		150	15.10	8.75	3.58	27.43
$27,000		100	24.47	9.45	5.09	39.01
		125	19.57	9.45	4.35	**33.38**
		150	16.31	9.45	3.86	29.63
$29,000	11 m (36 ft.)	100	26.28	10.15	5.46	41.89
		125	21.02	10.15	4.68	**35.85**
		150	17.52	10.15	4.15	31.82
$31,000		100	28.09	10.85	5.84	44.78
		125	22.47	10.85	5.00	**38.32**
		150	18.73	10.85	4.44	34.01
$33,000		100	29.90	11.55	6.22	47.67
		125	23.92	11.55	5.32	**40.79**
		150	19.94	11.55	4.72	36.21

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7

MOWER CONDITIONERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$14,000	2.8 m (9.2 ft.)	100	12.68	4.90	2.64	20.22
		125	10.14	4.90	2.26	**17.30**
		150	8.45	4.90	2.00	15.36
$17,000		100	15.40	5.95	3.20	24.55
		125	12.32	5.95	2.74	**21.01**
		150	10.26	5.95	2.43	18.65
$20,000	disc mower 2.8 m (9.2 ft.)	100	18.11	7.00	3.77	28.88
		125	14.49	7.00	3.22	**24.71**
		150	12.08	7.00	2.86	21.94
$25,000	3.7 m (12 ft.)	100	22.64	8.75	4.71	36.10
		125	18.11	8.75	4.03	**30.89**
		150	15.10	8.75	3.58	27.42
$28,000	4.3 m (14 ft.) disc mower 3.7 m (12 ft.)	100	25.36	9.80	5.27	40.43
		125	20.29	9.80	4.51	**34.60**
		150	16.91	9.80	4.01	30.71
$30,000	4.9 m (16 ft.)	100	27.17	10.50	5.65	43.32
		125	21.74	10.50	4.84	**37.07**
		150	18.11	10.50	4.29	32.91
$35,000	disc mower 4.7 m (15 ft.)	100	31.70	12.25	6.59	50.54
		125	25.36	12.25	5.64	**43.25**
		150	21.13	12.25	5.01	38.39

MOWERS and RAKES

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dolllars per hour			
$5,000		100	4.71	1.75	0.97	7.43
		125	3.77	1.75	0.83	**6.35**
		150	3.14	1.75	0.73	5.63
$6,000	rake 2.6 m (8.5 ft.) wheel rake 4.2 m (14 ft.)	100	5.66	2.10	1.16	8.92
		125	4.53	2.10	0.99	**7.62**
		150	3.77	2.10	0.88	6.75
$7,000	rake 2.9 m (9.5 ft.) mower 2.7 m (9 ft.)	100	6.60	2.45	1.36	10.41
		125	5.28	2.45	1.16	**8.89**
		150	4.40	2.45	1.03	7.88
$8,000		100	7.54	2.80	1.55	11.89
		125	6.03	2.80	1.33	**10.16**
		150	5.03	2.80	1.17	9.00
$9,000	wheel rake 7.0 m (23 ft.)	100	8.49	3.15	1.75	13.38
		125	6.79	3.15	1.49	**11.43**
		150	5.66	3.15	1.32	10.13

NOTE: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

BALE MOVERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$10,000	7 round bales	100	9.06	3.00	1.81	13.87
		150	6.04	3.00	1.36	**10.40**
		200	4.53	3.00	1.13	8.66
$12,500	9 round bales	100	11.33	3.75	2.26	17.34
		150	7.55	3.75	1.70	**13.00**
		200	5.66	3.75	1.41	10.83
$15,000	3 large square bales	100	13.59	4.50	2.71	20.81
		150	9.06	4.50	2.03	**15.60**
		200	6.80	4.50	1.69	12.99
$17,500	14 round bales	100	15.86	5.25	3.17	24.27
		150	10.57	5.25	2.37	**18.20**
		200	7.93	5.25	1.98	15.16
$20,000		100	18.12	6.00	3.62	27.74
		150	12.08	6.00	2.71	**20.80**
		200	9.06	6.00	2.26	17.32

FORAGE HARVESTERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$20,000	small - pickup header 65 kW (87 hp)	75	24.15	8.00	4.82	36.97
		100	18.11	8.00	3.92	**30.03**
		125	14.49	8.00	3.37	25.86
$23,000	small - rowcrop header 65 kW (87 hp)	75	27.77	9.20	5.55	42.52
		100	20.83	9.20	4.50	**34.54**
		125	16.66	9.20	3.88	29.74
$26,000	ıedium - pıckup header 100 kW (134 hp)	75	31.40	10.40	6.27	48.07
		100	23.55	10.40	5.09	**39.04**
		125	18.84	10.40	4.39	33.62
$29,000	·dium - rowcrop header 100 kW (134 hp)	75	35.02	11.60	6.99	53.61
		100	26.27	11.60	5.68	**43.55**
		125	21.01	11.60	4.89	37.50
$32,000		75	38.64	12.80	7.72	59.16
		100	28.98	12.80	6.27	**48.05**
		125	23.19	12.80	5.40	41.38
$35,000	large - pickup header 135 kW (181 hp)	75	42.27	14.00	8.44	64.71
		100	31.70	14.00	6.85	**52.55**
		125	25.36	14.00	5.90	45.26
$38,000	large - pickup header 135 kW (181 hp)	75	45.89	15.20	9.16	70.25
		100	34.42	15.20	7.44	**57.06**
		125	27.53	15.20	6.41	49.14
$41,000	large - rowcrop header 135 kW (181 hp)	75	49.51	16.40	9.89	75.80
		100	37.13	16.40	8.03	**61.56**
		125	29.71	16.40	6.92	53.02

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

ROUND BALERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hoiur			
$15,000		75	18.11	4.50	3.39	26.01
		100	13.59	4.50	2.71	**20.80**
		125	10.87	4.50	2.31	17.67
$16,500	1.2 x 1.2 m (4 x 4 ft.) (dia. x width)	75	19.93	4.95	3.73	28.61
		100	14.94	4.95	2.98	**22.88**
		125	11.96	4.95	2.54	19.44
$18,000		75	21.74	5.40	4.07	31.21
		100	16.30	5.40	3.26	**24.96**
		125	13.04	5.40	2.77	21.21
$19,500	1.2 x 1.5 m (4 x 5 ft.) (dia. x width)	75	23.55	5.85	4.41	33.81
		100	17.66	5.85	3.53	**27.04**
		125	14.13	5.85	3.00	22.98
$21,000		75	25.36	6.30	4.75	36.41
		100	19.02	6.30	3.80	**29.12**
		125	15.22	6.30	3.23	24.74
$23,500	1.8 x 1.2 m (6 x 4 ft.) 1.5 x 1.2 m (5 x 4 ft.) (dia. x width)	75	28.38	7.05	5.31	40.74
		100	21.28	7.05	4.25	**32.58**
		125	17.03	7.05	3.61	27.69
$26,000		75	31.40	7.80	5.88	45.08
		100	23.55	7.80	4.70	**36.05**
		125	18.84	7.80	4.00	30.63
$28,000		75	33.81	8.40	6.33	48.54
		100	25.36	8.40	5.06	**38.82**
		125	20.29	8.40	4.30	32.99
$31,000	1.8 x 1.5 m (6 x 5 ft.) (dia. x width)	75	37.44	9.30	7.01	53.75
		100	28.08	9.30	5.61	**42.98**
		125	22.46	9.30	4.76	36.53
$35,000		75	42.27	10.50	7.91	60.68
		100	31.70	10.50	6.33	**48.53**
		125	25.36	10.50	5.38	41.24

NOTE: Twine cost is not included. Mesh or net wrap adds $3-5000 to the above costs.

*There is a wide variation in round baler prices, so your baler size may not agree with the new cost indicated. In this case, use the **actual new cost.**

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SQUARE BALERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$15,000	36 x 46 cm (14 x 18 in.)	75	18.11	5.25	3.50	26.87
		100	13.59	5.25	2.83	**21.66**
		125	10.87	5.25	2.42	18.54
$18,000	36 x 46 cm (14 x 18 in.)	75	21.74	6.30	4.21	32.24
		100	16.30	6.30	3.39	**25.99**
		125	13.04	6.30	2.90	22.24
$21,000		75	25.36	7.35	4.91	37.62
		100	19.02	7.35	3.96	**30.33**
		125	15.22	7.35	3.38	25.95
$24,000	41 x 46 cm (16 x 18 in.)	75	28.98	8.40	5.61	42.99
		100	21.74	8.40	4.52	**34.66**
		125	17.39	8.40	3.87	29.66
$27,000	41 x 46 cm (16 x 18 in.)	75	32.61	9.45	6.31	48.36
		100	24.45	9.45	5.09	**38.99**
		125	19.56	9.45	4.35	33.37
$65,000		100	58.87	22.75	12.24	93.86
		150	39.25	22.75	9.30	**71.30**
		200	29.44	22.75	7.83	60.01
$75,000	61 x 91 cm (24 x 36 in.) 80 x 87 cm (32 x 34 in.)	100	67.93	26.25	14.13	108.30
		150	45.29	26.25	10.73	**82.27**
		200	33.96	26.25	9.03	69.25
$85,000		100	76.98	29.75	16.01	122.74
		150	51.32	29.75	12.16	**93.23**
		200	38.49	29.75	10.24	78.48
$95,000	91 x 122 cm (36 x 48 in.)	100	86.04	33.25	17.89	137.19
		150	57.36	33.25	13.59	**104.20**
		200	43.02	33.25	11.44	87.71
$105,000	118 x 127 cm (47 x 50 in.)	100	95.10	36.75	19.78	151.63
		150	63.40	36.75	15.02	**115.17**
		200	47.55	36.75	12.64	96.94

Note: Twine cost is not included in the above rates.

*Rental rate does **NOT** include cost of tractor unit. See Pages 6-7.

SP BALE WAGONS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
$90,000		150	54.37	2.25	8.49	65.12	6.75	10.00	81.87
		200	40.78	2.25	6.45	**49.48**	6.75	10.00	**66.23**
		250	32.62	2.25	5.23	40.10	6.75	10.00	56.85
$97,500		150	58.90	2.44	9.20	70.54	7.31	10.00	87.85
		200	44.18	2.44	6.99	**53.61**	7.31	10.00	**70.92**
		250	35.34	2.44	5.67	43.45	7.31	10.00	60.76
$105,000		150	63.43	2.63	9.91	75.97	7.88	10.00	93.84
		200	47.58	2.63	7.53	**57.73**	7.88	10.00	**75.61**
		250	38.06	2.63	6.10	46.79	7.88	10.00	64.66
$112,500		150	67.97	2.81	10.62	81.39	8.44	10.00	99.83
		200	50.97	2.81	8.07	**61.85**	8.44	10.00	**80.29**
		250	40.78	2.81	6.54	50.13	8.44	10.00	68.57
$120,000	160 bales 36 x 46 cm (14 x 18 in.)	150	72.50	3.00	11.32	86.82	9.00	10.00	105.82
		200	54.37	3.00	8.61	**65.98**	9.00	10.00	**84.98**
		250	43.50	3.00	6.97	53.47	9.00	10.00	72.47
$127,500		150	77.03	3.19	12.03	92.25	9.56	10.00	111.81
		200	57.77	3.19	9.14	**70.10**	9.56	10.00	**89.66**
		250	46.22	3.19	7.41	56.81	9.56	10.00	76.38

PTO BALE WAGONS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$20,000		100	18.12	5.00	3.47	26.59
		150	12.08	5.00	2.56	**19.65**
		200	9.06	5.00	2.11	16.17
$23,000	83 bales 36 x 46 cm (14 x 18 in.)	100	20.84	5.75	3.99	30.58
		150	13.90	5.75	2.95	**22.59**
		200	10.42	5.75	2.43	18.60
$26,000		100	23.56	6.50	4.51	34.57
		150	15.71	6.50	3.33	**25.54**
		200	11.78	6.50	2.74	21.02
$30,500	55 bales 41 x 46 cm (16 x 18 in.)	100	27.64	7.63	5.29	40.55
		150	18.43	7.63	3.91	**29.96**
		200	13.82	7.63	3.22	24.66
$33,000		100	29.90	8.25	5.72	43.88
		150	19.94	8.25	4.23	**32.41**
		200	14.95	8.25	3.48	26.68
$36,000	104 bales 36 x 46 cm (14 x 18 in.)	100	32.62	9.00	6.24	47.87
		150	21.75	9.00	4.61	**35.36**
		200	16.31	9.00	3.80	29.11

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

FORAGE BLOWERS and WAGONS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$7,200	med. capacity blower	100	6.52	2.16	1.30	9.99
		150	4.35	2.16	0.98	**7.49**
		200	3.26	2.16	0.81	6.24
$8,500	high capacity blower	100	7.70	2.55	1.54	11.79
		150	5.14	2.55	1.15	**8.84**
		200	3.85	2.55	0.96	7.36
$11,000		100	9.97	3.30	1.99	15.26
		150	6.65	3.30	1.49	**11.44**
		200	4.98	3.30	1.24	**9.53**
$13,500	S.U.22 cu. m (780 cu.ft.) H.D.16 cu. m (560 cu.ft.)	100	12.23	4.05	2.44	18.73
		150	8.16	4.05	1.83	**14.04**
		200	6.12	4.05	1.53	11.69
$16,000	S.U.27 cu. m (940 cu.ft.) H.D.19 cu. m (670 cu.ft.)	100	14.50	4.80	2.89	22.19
		150	9.67	4.80	2.17	**16.64**
		200	7.25	4.80	1.81	13.86
$18,500	S.U.31 cu. m (1100 cu.ft.) H.D.22 cu. m (780 cu.ft.)	100	16.76	5.55	3.35	25.66
		150	11.18	5.55	2.51	**19.24**
		200	8.38	5.55	2.09	16.02
$21,000	H.D.25 cu. m (890 cu.ft.)	100	19.03	6.30	3.80	29.13
		150	12.69	6.30	2.85	**21.83**
		200	9.52	6.30	2.37	18.19
$23,500	H.D.28 cu. m (1000 cu.ft.)	100	21.30	7.05	4.25	32.60
		150	14.20	7.05	3.19	**24.43**
		200	10.65	7.05	2.65	20.35

S.U. = self unloading forage wagon
H.D. = high dump forage wagon

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

MANURE SPREADERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$6,000		100	5.44	2.10	1.13	8.67
		125	4.35	2.10	0.97	**7.42**
		150	3.62	2.10	0.86	6.58
$8,250	6.0 cu. m (210 cu.ft.)	100	7.48	2.89	1.55	11.92
		125	5.98	2.89	1.33	**10.20**
		150	4.98	2.89	1.18	9.05
$10,500	8.1 cu. m (285 cu.ft.)	100	9.52	3.68	1.98	15.17
		125	7.61	3.68	1.69	**12.98**
		150	6.34	3.68	1.50	11.52
$12,500 side delivery,	10.0 cu. m (350 cu.ft.) 5.0 cu. m (175 cu.ft.)	100	11.33	4.38	2.36	18.06
		125	9.06	4.38	2.02	**15.45**
		150	7.55	4.38	1.79	13.72
$14,500 side delivery,	12.0 cu. m (420 cu.ft.) 5.9 cu. m (208 cu.ft.)	100	13.14	5.08	2.73	20.95
		125	10.51	5.08	2.34	**17.92**
		150	8.76	5.08	2.08	15.91
$18,000 side delivery,	14.0 cu. m (490 cu.ft.) 7.0 cu. m (247 cu.ft.)	100	16.31	6.30	3.39	26.00
		125	13.05	6.30	2.90	**22.25**
		150	10.87	6.30	2.58	19.75
$20,500 side delivery,	8.1 cu. m (285 cu.ft.)	100	18.58	7.18	3.86	29.61
		125	14.86	7.18	3.31	**25.34**
		150	12.38	7.18	2.93	22.49
$23,000	9.1 cu. m (320 cu.ft.) side delivery	100	20.84	8.05	4.33	33.23
		125	16.67	8.05	3.71	**28.43**
		150	13.90	8.05	3.29	25.24
$25,000	10.0 cu. m (352 cu.ft.) side delivery	100	22.66	8.75	4.71	36.12
		125	18.12	8.75	4.03	**30.91**
		150	15.10	8.75	3.58	27.43

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

POTATO EQUIPMENT

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$40,000	Band Sprayer (96')	100	36.25	14.00	7.54	57.79
		150	24.17	14.00	5.72	**43.89**
		200	18.12	14.00	4.82	36.94
$45,000		100	40.78	15.75	8.48	65.01
		150	27.19	15.75	6.44	**49.38**
		200	20.39	15.75	5.42	41.56
$50,000		100	45.31	17.50	9.42	72.23
		150	30.21	17.50	7.16	**54.86**
		200	22.66	17.50	6.02	46.18
$55,000		100	49.84	19.25	10.36	79.45
		150	33.23	19.25	7.87	**60.35**
		200	24.92	19.25	6.63	50.80
$60,000	6 row potato planter	100	54.37	21.00	11.31	86.68
		150	36.25	21.00	8.59	**65.84**
		200	27.19	21.00	7.23	55.41
$65,000	2 row potato harvester	100	58.90	22.75	12.25	93.90
		150	39.27	22.75	9.30	**71.32**
		200	29.45	22.75	7.83	60.03
$70,000		100	63.43	24.50	13.19	101.12
		150	42.29	24.50	10.02	**76.81**
		200	31.72	24.50	8.43	64.65
$75,000	8 row potato planter	100	67.97	26.25	14.13	108.35
		150	45.31	26.25	10.73	**82.29**
		200	33.98	26.25	9.03	**69.27**
$80,000		100	72.50	28.00	15.07	115.57
		150	48.33	28.00	11.45	**87.78**
		200	36.25	28.00	9.64	73.89
$85,000		100	77.03	29.75	16.02	122.79
		150	51.35	29.75	12.17	**93.27**
		200	38.51	29.75	10.24	78.50
$95,000	3 row potato harvester	100	86.09	33.25	17.90	137.24
		150	57.39	33.25	13.60	**104.24**
		200	43.04	33.25	11.44	87.74
$100,000		100	90.62	35.00	18.84	144.46
		150	60.41	35.00	14.31	**109.73**
		200	45.31	35.00	12.05	92.36
$110,000		100	99.68	38.50	20.73	158.91
		150	66.45	38.50	15.74	**120.70**
		200	49.84	38.50	13.25	101.59
$120,000	4 row potato harvester	100	108.74	42.00	22.61	173.36
		150	72.50	42.00	17.17	**131.67**
		200	54.37	42.00	14.46	110.83

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

FARMYARD EQUIPMENT (Grain)

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour		
$3,600	auger 7" x 41 ft. snowblower (96")	100	3.26	1.08	0.65	4.99
		150	2.17	1.08	0.49	**3.74**
		200	1.63	1.08	0.41	3.12
$4,300	auger 8" x 51 ft. snowblower (102")	100	3.90	1.29	0.78	5.96
		150	2.60	1.29	0.58	**4.47**
		200	1.95	1.29	0.49	3.72
$5,500	auger 10" x 51 ft. * or 8" x 62 ft. *	100	4.98	1.65	1.00	7.63
		150	3.32	1.65	0.75	**5.72**
		200	2.49	1.65	0.62	4.76
$7,000	auger 10" x 70 ft. *	100	6.34	2.10	1.27	9.71
		150	4.23	2.10	0.95	**7.28**
		200	3.17	2.10	0.79	6.06
$9,000	small grain vac	100	8.16	2.70	1.63	12.48
		150	5.44	2.70	1.22	**9.36**
		200	4.08	2.70	1.02	7.79
$11,500	auger 13"x 70 ft. *	100	10.42	3.45	2.08	15.95
		150	6.95	3.45	1.56	**11.96**
		200	5.21	3.45	1.30	9.96
$14,000	med. grain vac	100	12.69	4.20	2.53	19.42
		150	8.46	4.20	1.90	**14.56**
		200	6.34	4.20	1.58	12.12
$16,100	field scraper auger 13" x 90 ft.	100	14.59	4.83	2.91	22.33
		150	9.73	4.83	2.18	**16.74**
		200	7.29	4.83	1.82	13.94
$18,600	large grain vac.	100	16.86	5.58	3.37	25.80
		150	11.24	5.58	2.52	**19.34**
		200	8.43	5.58	2.10	16.11
$20,600		100	18.67	6.18	3.73	28.57
		150	12.45	6.18	2.79	**21.42**
		200	9.33	6.18	2.33	17.84

Includes:

Augers
Grain vacs
Scrapers
Snowblowers

*auger with swing away hopper

FARMYARD EQUIPMENT (Livestock)

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour		
$4,500		100	4.08	1.35	0.81	6.24
		150	2.72	1.35	0.61	**4.68**
		200	2.04	1.35	0.51	3.90
$5,500		100	4.98	1.65	1.00	7.63
		150	3.32	1.65	0.75	**5.72**
		200	2.49	1.65	0.62	4.76
$6,500	F.E.Loader (70 hp)	100	5.89	1.95	1.18	9.02
	Cattle Trailer 12'	150	3.93	1.95	0.88	**6.76**
	Post Driver	200	2.95	1.95	0.73	5.63
$8,000	F.E.Loader (70 - 90 hp)	100	7.25	2.40	1.45	11.10
	Cattle Trailer 16'	150	4.83	2.40	1.08	**8.32**
		200	3.62	2.40	0.90	6.93
$10,000	F.E.Loader (90 -120 hp)	100	9.06	3.00	1.81	13.87
	Cattle Trailer 20'	150	6.04	3.00	1.36	**10.40**
		200	4.53	3.00	1.13	8.66
$12,000	F.E.Loader (120-150 hp)	100	10.87	3.60	2.17	16.65
	Bale Processor	150	7.25	3.60	1.63	**12.48**
		200	5.44	3.60	1.36	10.39
$14,500	F.E.Loader (over 150 hp)	100	13.14	4.35	2.62	20.11
	portable grinder mixer **	150	8.76	4.35	1.97	**15.08**
	3.6 cu. m capacity (100 bus.)	200	6.57	4.35	1.64	12.56
$20,000	portable grinder mixer **	100	18.12	6.00	3.62	27.74
	4.9 cu. m capacity (135 bus.)	150	12.08	6.00	2.71	**20.80**
	tub grinder	200	9.06	6.00	2.26	17.32
$25,000		100	22.66	7.50	4.52	34.68
	tub grinder	150	15.10	7.50	3.39	**25.99**
		200	11.33	7.50	2.82	21.65
$31,500		100	28.55	9.45	5.70	43.69
	tub grinder	150	19.03	9.45	4.27	**32.75**
		200	14.27	9.45	3.56	27.28

Includes:

Bale Processors
Feed Mixers
Cattle Trailers
Post Drivers
Front end loader

**scale for grinder-mixers $2700 extra

TRUCKS

New Cost	Annual kilometres	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate	STANDBY CHARGES (not including labour)	
		dollars per kilometre							$ per day	plus $ per km
$35,000	8000	0.40	0.06	0.07	0.53	0.18	0.11	0.81		
	12000	0.26	0.07	0.05	**0.38**	0.18	0.11	**0.67**	18.24	0.25
	16000	0.20	0.07	0.04	0.31	0.18	0.11	0.60		
$42,500	8000	0.48	0.07	0.08	0.64	0.21	0.11	0.96		
	12000	0.32	0.08	0.06	**0.46**	0.21	0.11	**0.78**	22.15	0.31
	16000	0.24	0.09	0.05	0.38	0.21	0.11	0.70		
$50,000	8000	0.57	0.09	0.10	0.75	0.25	0.11	1.11		
	12000	0.38	0.10	0.07	**0.54**	0.25	0.11	**0.90**	26.05	0.36
	16000	0.28	0.10	0.06	0.44	0.25	0.11	0.80		
$57,500	8000	0.65	0.10	0.11	0.86	0.29	0.11	1.26		
	12000	0.43	0.11	0.08	**0.63**	0.29	0.11	**1.02**	29.96	0.41
	16000	0.33	0.12	0.07	0.51	0.29	0.11	0.91		
$65,000	8000	0.74	0.11	0.13	0.98	0.33	0.11	1.41		
	12000	0.49	0.12	0.09	**0.71**	0.33	0.11	**1.14**	33.87	0.47
	16000	0.37	0.13	0.08	0.58	0.33	0.11	1.01		
$72,500	8000	0.82	0.13	0.14	1.09	0.36	0.11	1.56		
	12000	0.55	0.14	0.10	**0.79**	0.36	0.11	**1.26**	37.78	0.52
	16000	0.41	0.15	0.08	0.64	0.36	0.11	1.12		
$80,000	8000	0.91	0.14	0.16	1.20	0.40	0.11	1.71		
	12000	0.60	0.15	0.11	**0.87**	0.40	0.11	**1.38**	41.69	0.58
	16000	0.45	0.17	0.09	0.71	0.40	0.11	1.22		
$87,500	8000	0.99	0.15	0.17	1.32	0.44	0.11	1.86		
	12000	0.66	0.17	0.12	**0.95**	0.44	0.11	**1.50**	45.59	0.63
	16000	0.50	0.18	0.10	0.78	0.44	0.11	1.33		
$95,000	10000	0.86	0.17	0.16	1.19	0.48	0.11	1.77		
	15000	0.57	0.19	0.12	**0.88**	0.48	0.11	**1.47**	49.50	0.70
	20000	0.43	0.21	0.10	0.74	0.48	0.11	1.32		
$102,500	10000	0.93	0.19	0.17	1.28	0.51	0.11	1.91		
	15000	0.62	0.21	0.12	**0.95**	0.51	0.11	**1.57**	53.41	0.75
	20000	0.46	0.23	0.10	0.80	0.51	0.11	1.42		
$110,000	10000	1.00	0.20	0.18	1.38	0.55	0.11	2.04		
	15000	0.66	0.22	0.13	**1.02**	0.55	0.11	**1.68**	57.32	0.81
	20000	0.50	0.25	0.11	0.86	0.55	0.11	1.52		
$117,500	10000	1.06	0.22	0.19	1.47	0.59	0.11	2.17		
	15000	0.71	0.24	0.14	**1.09**	0.59	0.11	**1.79**	61.23	0.86
	20000	0.53	0.26	0.12	0.91	0.59	0.11	1.61		
$125,000	15000	0.76	0.25	0.15	1.16	0.63	0.11	1.90		
	20000	0.57	0.28	0.13	**0.97**	0.63	0.11	**1.71**	65.13	0.95
	25000	0.45	0.30	0.11	0.87	0.63	0.11	1.61		
$132,500	15000	0.80	0.27	0.16	1.23	0.66	0.11	2.00		
	20000	0.60	0.30	0.13	**1.03**	0.66	0.11	**1.80**	69.04	1.00
	25000	0.48	0.32	0.12	0.92	0.66	0.11	1.70		
$140,000	15000	0.85	0.28	0.17	1.30	0.70	0.11	2.11		
	20000	0.63	0.31	0.14	**1.09**	0.70	0.11	**1.90**	72.95	1.06
	25000	0.51	0.34	0.13	0.97	0.70	0.11	1.78		
$147,500	15000	0.89	0.30	0.18	1.37	0.74	0.11	2.22		
	20000	0.67	0.33	0.15	**1.15**	0.74	0.11	**1.99**	76.86	1.12
	25000	0.53	0.36	0.13	1.03	0.74	0.11	1.87		

Note Fuel costs are for diesel engines. For gasoline engines multiply fuel costs by 1.55.
Use standby charges when tucks costing $85,000 or less are used less than 60 km per day; trucks costing $92,500 to $115,000 are used less than 75 km per day ; or trucks costing $122,500 or more are used less than 100 km per day. Standby charges are based on fixed cost of ownership for 200 days per year. Adjust upwards if shorter periods of use per year are assumed.

Average costs. (net payload in brackets)

single axle with grain box (9) $40,000 to $48,000 (gasoline)
single axle with grain box (9) $58,000 to $65,000 (diesel)
tandem axle with grain box (16 t) $75,000 to $90,000
truck tractor with grain trailer (23 t) $125,000 to $140,000

APPENDIX

1) Depreciation and Interest Rate Calculations:

	Depreciation Rates		
	1st year	all other years	remaining value after 15 years
Tractors	15%	12.0%	14.2%
Trucks, tillage and harvesting equip.	18%	14.4%	9.3%
Hay and forage equipment	20%	16.0%	7.0%

Interest costs are based on the average value of the machine over a 15 year life, using annual depreciated values calculated from the above rates. The interest costs are calculated using the beginning value for each year. (see Table below).

Example: Tractor costing $100,000 new. Average annual depreciation for 15 year life is $5720. Average annual interest cost at 5% interest rate is $2300.

Hourly depreciation at 450 hours/year	$5720/450=	$12.71 per hour
Hourly interest cost :	$2300/450=	$5.11 per hour
Insurance and housing cost is 1%/yr	$1000/450=	$2.22 per hour
Total fixed costs:		**$20.04** per hour

Depreciation and Interest Cost Table for $100,000 tractor (interest rate 5%)

Year	Depreciation rate	Depreciation	Value	Interest
0	15%		$100,000	
1	12%	$15,000	$85,000	$5,000
2	12%	$10,200	$74,800	$4,250
3	12%	$8,976	$65,824	$3,740
4	12%	$7,899	$57,925	$3,291
5	12%	$6,951	$50,974	$2,896
6	12%	$6,117	$44,857	$2,549
7	12%	$5,383	$39,474	$2,243
8	12%	$4,737	$34,737	$1,974
9	12%	$4,168	$30,569	$1,737
10	12%	$3,668	$26,901	$1,528
11	12%	$3,228	$23,673	$1,345
12	12%	$2,841	$20,832	$1,184
13	12%	$2,500	$18,332	$1,042
14	12%	$2,200	$16,132	$917
15	12%	$1,936	$14,196	$807
	15 year average	$5,720	$46,002	$2,300

2) Grain Drying Example: Stationary Batch(250 bu.),$45,000, 150 hr./yr, Wheat from 17% to 14.5% Ambient Temp. of -7 degrees C, Drying rate of 200 bu./hr

Custom Rate: (from Table on Page 12)		$51.05/hr.
Propane Cost:	$0.05/bu. x 1.5 x 200 bu./hr.=	$15.00/hr.
Total Custom Rate -		**$66.05 / hr**

3) Chart Formulas (pages 34 and 35):

Cost per hectare or acre : $\frac{\text{cost per hour}}{\text{hectares or acres per hour}}$

Hectares per hour = $\frac{\text{width in metres x speed in km/h x \% efficiency}}{10.0}$

Acres per hour = $\frac{\text{width in feet x speed in mph x \% efficiency}}{8.25}$

Note: (80% field efficiency is assumed in the charts)

To determine the cost or rate per hectare, acre, or bale, use the charts provided on the last two pages.

Example No. 1. Combine custom rate is $150/h; the combine covers 9 acres per hour. Cost per acre would be $16.67 (from chart on page 34).

Example No. 2. Seeding with an air seeder. The rental rate for the air seeder is $85/h and the tractor custom rate is $45/h. The total hourly rate = $130/h. The work rate is 8 ha/h. Rate per hectare = $16.25 (from chart on page 34).

Example No. 3. Baler making 14 bales per hour. Baler rental rate = $33/h. Tractor custom rate is $23/h. Total hourly rate = $56/h plus twine. Cost per bale = $4.00 plus twine. (from chart on page 35).

DOLLARS PER HECTARE OR ACRE

hectares or acres per hour	DOLLARS PER HOUR										
	$10.00	$15.00	$20.00	$25.00	$30.00	$35.00	$40.00	$45.00	$50.00	$55.00	$60.00
2.0	$5.00	$7.50	$10.00	$12.50	$15.00	$17.50	$20.00	$22.50	$25.00	$27.50	$30.00
2.5	$4.00	$6.00	$8.00	$10.00	$12.00	$14.00	$16.00	$18.00	$20.00	$22.00	$24.00
3.0	$3.33	$5.00	$6.67	$8.33	$10.00	$11.67	$13.33	$15.00	$16.67	$18.33	$20.00
3.5	$2.86	$4.29	$5.71	$7.14	$8.57	$10.00	$11.43	$12.86	$14.29	$15.71	$17.14
4.0	$2.50	$3.75	$5.00	$6.25	$7.50	$8.75	$10.00	$11.25	$12.50	$13.75	$15.00
4.5	$2.22	$3.33	$4.44	$5.56	$6.67	$7.78	$8.89	$10.00	$11.11	$12.22	$13.33
5.0	$2.00	$3.00	$4.00	$5.00	$6.00	$7.00	$8.00	$9.00	$10.00	$11.00	$12.00
5.5	$1.82	$2.73	$3.64	$4.55	$5.45	$6.36	$7.27	$8.18	$9.09	$10.00	$10.91
6.0	$1.67	$2.50	$3.33	$4.17	$5.00	$5.83	$6.67	$7.50	$8.33	$9.17	$10.00
6.5	$1.54	$2.31	$3.08	$3.85	$4.62	$5.38	$6.15	$6.92	$7.69	$8.46	$9.23
7.0	$1.43	$2.14	$2.86	$3.57	$4.29	$5.00	$5.71	$6.43	$7.14	$7.86	$8.57
7.5	$1.33	$2.00	$2.67	$3.33	$4.00	$4.67	$5.33	$6.00	$6.67	$7.33	$8.00
8.0	$1.25	$1.88	$2.50	$3.13	$3.75	$4.38	$5.00	$5.63	$6.25	$6.88	$7.50
8.5	$1.18	$1.76	$2.35	$2.94	$3.53	$4.12	$4.71	$5.29	$5.88	$6.47	$7.06
9.0	$1.11	$1.67	$2.22	$2.78	$3.33	$3.89	$4.44	$5.00	$5.56	$6.11	$6.67
9.5	$1.05	$1.58	$2.11	$2.63	$3.16	$3.68	$4.21	$4.74	$5.26	$5.79	$6.32
10.0	$1.00	$1.50	$2.00	$2.50	$3.00	$3.50	$4.00	$4.50	$5.00	$5.50	$6.00
10.5	$0.95	$1.43	$1.90	$2.38	$2.86	$3.33	$3.81	$4.29	$4.76	$5.24	$5.71
11.0	$0.91	$1.36	$1.82	$2.27	$2.73	$3.18	$3.64	$4.09	$4.55	$5.00	$5.45
11.5	$0.87	$1.30	$1.74	$2.17	$2.61	$3.04	$3.48	$3.91	$4.35	$4.78	$5.22
12.0	$0.83	$1.25	$1.67	$2.08	$2.50	$2.92	$3.33	$3.75	$4.17	$4.58	$5.00
12.5	$0.80	$1.20	$1.60	$2.00	$2.40	$2.80	$3.20	$3.60	$4.00	$4.40	$4.80
13.0	$0.77	$1.15	$1.54	$1.92	$2.31	$2.69	$3.08	$3.46	$3.85	$4.23	$4.62
13.5	$0.74	$1.11	$1.48	$1.85	$2.22	$2.59	$2.96	$3.33	$3.70	$4.07	$4.44
14.0	$0.71	$1.07	$1.43	$1.79	$2.14	$2.50	$2.86	$3.21	$3.57	$3.93	$4.29
14.5	$0.69	$1.03	$1.38	$1.72	$2.07	$2.41	$2.76	$3.10	$3.45	$3.79	$4.14
15.0	$0.67	$1.00	$1.33	$1.67	$2.00	$2.33	$2.67	$3.00	$3.33	$3.67	$4.00
15.5	$0.65	$0.97	$1.29	$1.61	$1.94	$2.26	$2.58	$2.90	$3.23	$3.55	$3.87
16.0	$0.63	$0.94	$1.25	$1.56	$1.88	$2.19	$2.50	$2.81	$3.13	$3.44	$3.75
16.5	$0.61	$0.91	$1.21	$1.52	$1.82	$2.12	$2.42	$2.73	$3.03	$3.33	$3.64
17.0	$0.59	$0.88	$1.18	$1.47	$1.76	$2.06	$2.35	$2.65	$2.94	$3.24	$3.53
17.5	$0.57	$0.86	$1.14	$1.43	$1.71	$2.00	$2.29	$2.57	$2.86	$3.14	$3.43
18.0	$0.56	$0.83	$1.11	$1.39	$1.67	$1.94	$2.22	$2.50	$2.78	$3.06	$3.33

hectares or acres per hour	DOLLARS PER HOUR										
	$70.00	$80.00	$90.00	$100.00	$110.00	$120.00	$130.00	$140.00	$150.00	$160.00	$170.00
4.0	$17.50	$20.00	$22.50	$25.00	$27.50	$30.00	$32.50	$35.00	$37.50	$40.00	$42.50
4.5	$15.56	$17.78	$20.00	$22.22	$24.44	$26.67	$28.89	$31.11	$33.33	$35.56	$37.78
5.0	$14.00	$16.00	$18.00	$20.00	$22.00	$24.00	$26.00	$28.00	$30.00	$32.00	$34.00
5.5	$12.73	$14.55	$16.36	$18.18	$20.00	$21.82	$23.64	$25.45	$27.27	$29.09	$30.91
6.0	$11.67	$13.33	$15.00	$16.67	$18.33	$20.00	$21.67	$23.33	$25.00	$26.67	$28.33
6.5	$10.77	$12.31	$13.85	$15.38	$16.92	$18.46	$20.00	$21.54	$23.08	$24.62	$26.15
7.0	$10.00	$11.43	$12.86	$14.29	$15.71	$17.14	$18.57	$20.00	$21.43	$22.86	$24.29
7.5	$9.33	$10.67	$12.00	$13.33	$14.67	$16.00	$17.33	$18.67	$20.00	$21.33	$22.67
8.0	$8.75	$10.00	$11.25	$12.50	$13.75	$15.00	$16.25	$17.50	$18.75	$20.00	$21.25
8.5	$8.24	$9.41	$10.59	$11.76	$12.94	$14.12	$15.29	$16.47	$17.65	$18.82	$20.00
9.0	$7.78	$8.89	$10.00	$11.11	$12.22	$13.33	$14.44	$15.56	$16.67	$17.78	$18.89
9.5	$7.37	$8.42	$9.47	$10.53	$11.58	$12.63	$13.68	$14.74	$15.79	$16.84	$17.89
10.0	$7.00	$8.00	$9.00	$10.00	$11.00	$12.00	$13.00	$14.00	$15.00	$16.00	$17.00
10.5	$6.67	$7.62	$8.57	$9.52	$10.48	$11.43	$12.38	$13.33	$14.29	$15.24	$16.19
11.0	$6.36	$7.27	$8.18	$9.09	$10.00	$10.91	$11.82	$12.73	$13.64	$14.55	$15.45
11.5	$6.09	$6.96	$7.83	$8.70	$9.57	$10.43	$11.30	$12.17	$13.04	$13.91	$14.78
12.0	$5.83	$6.67	$7.50	$8.33	$9.17	$10.00	$10.83	$11.67	$12.50	$13.33	$14.17
12.5	$5.60	$6.40	$7.20	$8.00	$8.80	$9.60	$10.40	$11.20	$12.00	$12.80	$13.60
13.0	$5.38	$6.15	$6.92	$7.69	$8.46	$9.23	$10.00	$10.77	$11.54	$12.31	$13.08
13.5	$5.19	$5.93	$6.67	$7.41	$8.15	$8.89	$9.63	$10.37	$11.11	$11.85	$12.59
14.0	$5.00	$5.71	$6.43	$7.14	$7.86	$8.57	$9.29	$10.00	$10.71	$11.43	$12.14
14.5	$4.83	$5.52	$6.21	$6.90	$7.59	$8.28	$8.97	$9.66	$10.34	$11.03	$11.72
15.0	$4.67	$5.33	$6.00	$6.67	$7.33	$8.00	$8.67	$9.33	$10.00	$10.67	$11.33
15.5	$4.52	$5.16	$5.81	$6.45	$7.10	$7.74	$8.39	$9.03	$9.68	$10.32	$10.97
16.0	$4.38	$5.00	$5.63	$6.25	$6.88	$7.50	$8.13	$8.75	$9.38	$10.00	$10.63
16.5	$4.24	$4.85	$5.45	$6.06	$6.67	$7.27	$7.88	$8.48	$9.09	$9.70	$10.30
17.0	$4.12	$4.71	$5.29	$5.88	$6.47	$7.06	$7.65	$8.24	$8.82	$9.41	$10.00
17.5	$4.00	$4.57	$5.14	$5.71	$6.29	$6.86	$7.43	$8.00	$8.57	$9.14	$9.71
18.0	$3.89	$4.44	$5.00	$5.56	$6.11	$6.67	$7.22	$7.78	$8.33	$8.89	$9.44
18.5	$3.78	$4.32	$4.86	$5.41	$5.95	$6.49	$7.03	$7.57	$8.11	$8.65	$9.19
19.0	$3.68	$4.21	$4.74	$5.26	$5.79	$6.32	$6.84	$7.37	$7.89	$8.42	$8.95
19.5	$3.59	$4.10	$4.62	$5.13	$5.64	$6.15	$6.67	$7.18	$7.69	$8.21	$8.72
20.0	$3.50	$4.00	$4.50	$5.00	$5.50	$6.00	$6.50	$7.00	$7.50	$8.00	$8.50

DOLLARS PER BALE

bales per hour	DOLLARS PER HOUR									
	$45.00	$50.00	$55.00	$60.00	$65.00	$70.00	$75.00	$80.00	$85.00	$90.00	$95.00
10	$4.50	$5.00	$5.50	$6.00	$6.50	$7.00	$7.50	$8.00	$8.50	$9.00	$9.50
12	$3.75	$4.17	$4.58	$5.00	$5.42	$5.83	$6.25	$6.67	$7.08	$7.50	$7.92
14	$3.21	$3.57	$3.93	$4.29	$4.64	$5.00	$5.36	$5.71	$6.07	$6.43	$6.79
16	$2.81	$3.13	$3.44	$3.75	$4.06	$4.38	$4.69	$5.00	$5.31	$5.63	$5.94
18	$2.50	$2.78	$3.06	$3.33	$3.61	$3.89	$4.17	$4.44	$4.72	$5.00	$5.28
20	$2.25	$2.50	$2.75	$3.00	$3.25	$3.50	$3.75	$4.00	$4.25	$4.50	$4.75
22	$2.05	$2.27	$2.50	$2.73	$2.95	$3.18	$3.41	$3.64	$3.86	$4.09	$4.32
24	$1.88	$2.08	$2.29	$2.50	$2.71	$2.92	$3.13	$3.33	$3.54	$3.75	$3.96
26	$1.73	$1.92	$2.12	$2.31	$2.50	$2.69	$2.88	$3.08	$3.27	$3.46	$3.65
28	$1.61	$1.79	$1.96	$2.14	$2.32	$2.50	$2.68	$2.86	$3.04	$3.21	$3.39
30	$1.50	$1.67	$1.83	$2.00	$2.17	$2.33	$2.50	$2.67	$2.83	$3.00	$3.17
100	$0.45	$0.50	$0.55	$0.60	$0.65	$0.70	$0.75	$0.80	$0.85	$0.90	$0.95
125	$0.36	$0.40	$0.44	$0.48	$0.52	$0.56	$0.60	$0.64	$0.68	$0.72	$0.76
150	$0.30	$0.33	$0.37	$0.40	$0.43	$0.47	$0.50	$0.53	$0.57	$0.60	$0.63
175	$0.26	$0.29	$0.31	$0.34	$0.37	$0.40	$0.43	$0.46	$0.49	$0.51	$0.54
200	$0.23	$0.25	$0.28	$0.30	$0.33	$0.35	$0.38	$0.40	$0.43	$0.45	$0.48
225	$0.20	$0.22	$0.24	$0.27	$0.29	$0.31	$0.33	$0.36	$0.38	$0.40	$0.42
250	$0.18	$0.20	$0.22	$0.24	$0.26	$0.28	$0.30	$0.32	$0.34	$0.36	$0.38
275	$0.16	$0.18	$0.20	$0.22	$0.24	$0.25	$0.27	$0.29	$0.31	$0.33	$0.35
300	$0.15	$0.17	$0.18	$0.20	$0.22	$0.23	$0.25	$0.27	$0.28	$0.30	$0.32
325	$0.14	$0.15	$0.17	$0.18	$0.20	$0.22	$0.23	$0.25	$0.26	$0.28	$0.29
350	$0.13	$0.14	$0.16	$0.17	$0.19	$0.20	$0.21	$0.23	$0.24	$0.26	$0.27
375	$0.12	$0.13	$0.15	$0.16	$0.17	$0.19	$0.20	$0.21	$0.23	$0.24	$0.25
400	$0.11	$0.13	$0.14	$0.15	$0.16	$0.18	$0.19	$0.20	$0.21	$0.23	$0.24

HECTARES PER HOUR

at 80% field efficiency

speed in km / h	WIDTH IN METRES									
	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
4	0.64	0.96	1.28	1.60	1.92	2.24	2.56	2.88	3.20	3.52	3.84
5	0.80	1.20	1.60	2.00	2.40	2.80	3.20	3.60	4.00	4.40	4.80
6	0.96	1.44	1.92	2.40	2.88	3.36	3.84	4.32	4.80	5.28	5.76
7	1.12	1.68	2.24	2.80	3.36	3.92	4.48	5.04	5.60	6.16	6.72
8	1.28	1.92	2.56	3.20	3.84	4.48	5.12	5.76	6.40	7.04	7.68
9	1.44	2.16	2.88	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64
10	1.60	2.40	3.20	4.00	4.80	5.60	6.40	7.20	8.00	8.80	9.60
11	1.76	2.64	3.52	4.40	5.28	6.16	7.04	7.92	8.80	9.68	10.56
12	1.92	2.88	3.84	4.80	5.76	6.72	7.68	8.64	9.60	10.56	11.52
13	2.08	3.12	4.16	5.20	6.24	7.28	8.32	9.36	10.40	11.44	12.48
14	2.24	3.36	4.48	5.60	6.72	7.84	8.96	10.08	11.20	12.32	13.44
15	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00	13.20	14.40
16	2.56	3.84	5.12	6.40	7.68	8.96	10.24	11.52	12.80	14.08	15.36
17	2.72	4.08	5.44	6.80	8.16	9.52	10.88	12.24	13.60	14.96	16.32
18	2.88	4.32	5.76	7.20	8.64	10.08	11.52	12.96	14.40	15.84	17.28

ACRES PER HOUR

at 80% field efficiency

speed in mph	WIDTH IN FEET									
	6.0	10.0	14.0	18.0	22.0	26.0	30.0	34.0	38.0	42.0	46.0
3	1.75	2.91	4.07	5.24	6.40	7.57	8.73	9.89	11.06	12.22	13.39
4	2.33	3.88	5.43	6.98	8.54	10.09	11.64	13.19	14.74	16.30	17.85
5	2.91	4.85	6.79	8.73	10.67	12.61	14.55	16.49	18.43	20.37	22.31
6	3.49	5.82	8.15	10.48	12.80	15.13	17.46	19.79	22.12	24.44	26.77
7	4.07	6.79	9.51	12.22	14.94	17.65	20.37	23.09	25.80	28.52	31.23
8	4.66	7.76	10.86	13.97	17.07	20.18	23.28	26.38	29.49	32.59	35.70
9	5.24	8.73	12.22	15.71	19.21	22.70	26.19	29.68	33.17	36.67	40.16
10	5.82	9.70	13.58	17.46	21.34	25.22	29.10	32.98	36.86	40.74	44.62
11	6.40	10.67	14.94	19.21	23.47	27.74	32.01	36.28	40.55	44.81	49.08
12	6.98	11.64	16.30	20.95	25.61	30.26	34.92	39.58	44.23	48.89	53.54